

**Notice of Allowability****Application No.**

10/762,527

**Applicant(s)**

KIM ET AL.

**Examiner**

Trang U. Tran

**Art Unit**

2622

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to November 14, 2008.
2. ☒ The allowed claim(s) is/are 1-15.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some\* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date 01/23/2009.
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

**EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Larry Galvin on January 23, 2009.

The application has been amended as follows:

In claim 9:

Line 3, the phrase "converting a data rate" has been changed to --converting, in a first filter, a data rate--,

Line 6, the phrase "outputting the digital IF" has been changed to --outputting, in the first filter, the digital IF--,

Line 9, the phrase "multiplying the first" has been changed to --multiplying, in a multiplier, the first--,

Line 11, the phrase "generating a first baseband" has been changed to --generating, in the multiplier, a first baseband--,

Line 13, the phrase "receiving the first" has been changed to --receiving, in a second filter, the first--,

Lines 13-14, the phrase "controlling their signal-to-noise ratios (SNRs), and shifting frequency bands" has been changed to --controlling, in the second filter, signal-

to-noise ratios (SNRs) of the first and second basebands signals, and shifting, in a sorter, frequency bands --,

Line 16, the phrase "combining the frequency-shifted" has been changed to -- combining, in a remover, the frequency-shifted--,

Line 17, the phrase "removing a direct-current (DC)" has been changed to -- removing, in the remover, a direct-current (DC)--,

Line 18, the phrase "changing and outputting a sampling rate" has been changed to --changing and outputting, in a controller, a sampling rate --,

Line 20, the phrase "receiving the first and second" has been changed to -- receiving, in a first restorer, the first and second--,

Lines 20-21, the phrase "detecting frequency offsets from the carrier, and generating the complex sinewave" has been changed to --detecting, in the first restorer, frequency offsets from the carrier, and generating, in the first restorer, the complex sinewave --,

Line 23, the phrase "receiving the signal obtained in the combining step and generating the" has been changed to --receiving, in a second restorer, the signal obtained in the combining step and generating, in the second restorer, the--.

These changes will place this application in condition for allowance.

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Trang U. Tran whose telephone number is (571) 272-7358. The examiner can normally be reached on 9:00 AM - 6:30 PM, Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lin Ye can be reached on (571) 272-7372. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

January 31, 2009

/Trang U. Tran/  
Primary Examiner, Art Unit 2622